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PATENT & TRADEMARK AGENCY

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TO:

Liana Chase

OFFICE OF PETITIONS

COMPANY:

United States Patent and Trademark Office

FAX NO:

571-27**3**-0025

DATE:

February 9, 2005

COMMENTS:

Re: United States Patent Application No. 10/538,768

Inventor:

Bernard Ruchet

Title:

Method and Apparatus for Testing Optical Networks

Our File:

AP1012USN

Further to your telephone conversation with my assistant, Kathleen, attached is the International Search report, together with a copy of the front page of EP 0 786 878 and WO01/33746.

I look forward to hearing that you have received these documents and that the Petition to Make Special has been granted.

Yours truly,

Thomas Adams

Adams Patent & Trademark Agency

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| PCT/CA2004/001552

CLASSIFICATION OF SUBJECT MATTER H04B-10/08, H04B-17/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) HD4B-10/03, H04B-17/00, G01N with keywords

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Wpil, Delphion, Pluspat, IEEE explore Canadian patent database (optical, measure, monitoring, pon, signal, port, coupler, splitter)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

٠	Category*	Citation of document with in the		
		Citation of document, with indication, where appropriate, of the relevant passages .	Relevant to claim No.	
	Y .	US6,476,919 (Mori et al.) 5 November 2002 Col 14 line 17-line 45 Figure 16 and 19	1-5,9-11,12-16 and 20- 23	
	Y	WO01/33746A2 (Ramaswami et al.) 10 May 2001 Figure 19 page 36 line 13-page41 line 2	1-5,9-11,12-16 and 20-	
		US6,396,575 (Holland) 28 May 2002 Figure 1 Col 3 line 10 -col 4 line 34	1-5,9-11,12-16 and 20- 23	
	A .	EP0786878 (Cohen et al.) 30 July 1997 Whole document	1-23	
Fì	wither documen	nts are listed in the continuation of Paul C		

	ther documents are listed in the continuation of Box C. Special categories of cited documents:	Patent family members are listed in annex.
_	to be of particular relevance carrier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	is the document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an invention cannot be considered to involve an invention cannot be considered to involve an invention.
<u> </u>	of the actual completion of the international-type search vember 2004 (19-11-2004)	Date of mailing of the international-type search report 03 December 2004 (03-12-2004)
Facsin	and mailing address of the ISA/ Commissioner of Patents Canadian Patent Offics - PCT Ottawa/Gatineau KIA OC9 sile No. 1-819-953-9358	Authorized officer Claude Mathieu (819) 997-2163

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. /CA2004/001552

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PCT

(10) International Publication Number WO 01/33746 A2

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- ____

H04B 10/00

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2 November 2000 (02.11.2000)

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English

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- 09/704,439 1 November 2000 (01.11.2000) US

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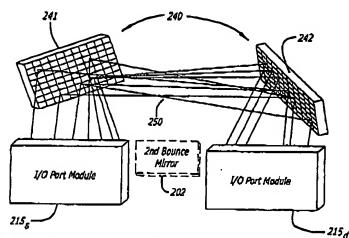
- 74) Agents: SCHAAL, William, W. et al.; Blakely, Sokoloff, Taylor & Zafman, 7th floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025-1026 (US).
- (81) Designated States (national): AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Burasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

 Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR OPTICAL TO ELECTRICAL TO OPTICAL CONVERSION IN AN OPTICAL CROSS-CONNECT SWITCH



(57) Abstract: Methods, apparatus and systems for regenerating, monitoring and bridging optical signals through an optical cross-connect switch to provide increased reliability. A self testing method, apparatus and system for an optical cross-connect switch. An optical-to-electrical-to-optical converter (O/B/O) is provided in an optical cross-connect switch to provide optical-electrical-optical converters are referred to as smart port cards while I/O port cards without an optical-to-electrical-to-optical converter are referred to as smart port cards while I/O port cards for testing optical cross-connect switches. Methods, apparatus and systems for performing bridging, test access, and supporting redundant optical switch fabrics are also disclosed.

53746 AZ





Europhisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 0 786 878 A2**

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(19)

EUROPEAN PATENT APPLICATION

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(22) Date of filing: 20.11.1992

(84) Designated Contracting States: DE FR GB IT

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(62) Document number(s) of the earlier application(s) in accordance with Art. 78 EPC: 92310603.3 / 0 546 707

(71) Applicant: AT&T Corp.
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(72) Inventors:

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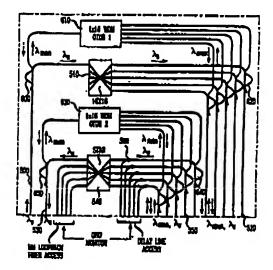
Remarks:

This application was filed on 10 - 03 - 1997 as a divisional application to the application mentioned under INID code 62.

(54) Passive optical network

(57) A passive optical natwork has an input port (500) and a plurality of output ports (520). It responds to input optical eignals in a first wavelength region (λ_{mon}) by routing them to respective output ports, depending on their wavelengths (demultiplexing 810). It responds to input optical eignals in a second wavelength region λ_{a} by routing a portion to each of the output ports (star coupling 510).

FIG. 9



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